

SOV/121-58-8-1/29  
The Design of Faceplates (Turntables) of Metal Cutting Machine Tools  
for Stiffness

with the help of Table 2. From this point of view, worktables exceeding 3.5 m diameter can be made without central kingpost supported in two bearings. Figs 12 and 13 show the faceplate stiffness against its depth/diameter ratio for various numbers of radial webs. In the range of 2 - 4 m diameter, an optimum design has a depth of 12% and about 11 radial webs. Between 5 and 8 m diameter, the depth should be 9% and the number of webs 14. So long as the area of openings in the bottom wall does not exceed 20%, the faceplate stiffness suffers little change.

There are 13 figures and 2 tables.

Card 5/5

LEVINA, Z.M.; RESHETOV, D.N.

Contact pliability of tightened joints of machine parts. Stan.1  
instr. 29 no.5:25-27 My '58. (MIRA 11:7)  
(Deformations (Mechanics))

**STK/LB**

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Reprints produced in Material and Structures (Problems of Strength of Materials and Structures) Moscow, 1979. 399 p. Reprints all inserted. 2,500 copies printed.

Assoc. Ed.: D. E. Webster, Professor, Bureau of Industrial Engineering;

REMARKS: The engine and auxiliary equipment are in good condition and ready for service. The engine is in good condition and ready for service. The engine is in good condition and ready for service.

**Comments:** The book contains 86 articles on the strength of materials in general; 11 articles devoted to the question of fatigue. This collection was prepared under the direction of the Institute of Mechanical Engineering of the AS USSR in honor of Sergey Timoshenko's death; one of his founders and directors of the national school of strength of materials, who recently completed 30 years of scientific activity. The profession drew a short sketch of his life and professional activities. The collection is divided into two parts: the strength of machine engineering materials.

The second part contains 13 articles on dynamics and calculation of strength and stability. There are references at the end of each article.

## PART II: FINANCE AND CALCULATION OF INTEREST AND RENT

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DEPARTMENT OF COMMERCE

Card 6/6

09-26-94  
ac/cw

SOV/122-59-2-2/34

**AUTHORS:** Lavina, Z.M., Candidate of Technical Sciences and  
Reshetov, D.N., Doctor of Technical Sciences, Professor

**TITLE:** A Stress Analysis and Experimental Investigation of the  
Flexure of Circular Hollow Reinforced Plates with Radial  
and Annular Webs (Raschet i eksperimental'noye  
issledovaniye izgiba kruglykh slaznykh plastin s  
radial'nymi i kol'tsevyimi rebrami)

**PERIODICAL:** Vestnik Mashinostroyeniya, 1959, Nr 2, pp 8-11 (USSR)

**ABSTRACT:** Hollow plate structures with radial and/or annular webs  
are used as face plates, foundations and rotary tables  
and judged by their stiffness. The results of an  
approximate analysis and of laboratory tests on "Perspex"  
type models are reported. The relative effect of the  
webs on the deflection of a plate loaded in the centre  
and supported round its edge are examined analytically  
assuming the simplest law of distribution of the  
deflections (sinusoidal). The results so obtained are  
applied to more complex load systems with the help of  
experimental measurements. In such an approximation,  
the deflection of a complex hollow circular plate can  
be found from the usual formulae for circular solid

Card 1/2

SOV/ENG-59-2-2/74

**A Stress Analysis and Experimental Investigation of the Flexure of Circular Hollow Reinforced Plates with Radial and Annular Webs**

plates if an effective plate stiffness (Rayleigh stiffness) is substituted and a correction factor introduced to allow for the shear in the webs. In the presence of radial windows an effective thickness should replace the actual thickness of the wall. The effect of annular webs is that of annular moments which reduce the deflections by an amount expressed in a formula. Fig 5 and 6 show the distribution of deflections measured on models and compared with analytical distributions. A good agreement has been found. Under central loading (Fig 5) the elastic line of a complex plate agrees with that for a solid plate. Under eccentric loading (Fig 6) the overall agreement is equally good except for local deflections. The presence of annular webs (one, two or three) changes the deflections by no more than 8%. There are 6 figures and 4 Soviet references.

Card 2/2

KAMINSKAYA, Virineya Vasil'yevna; LEVINA, Zoya Mikhaylovna; RESEKTOV,  
Dmitriy Nikolayevich, prof., doktor tekhn.nauk; BALANDIN, A.F.,  
red.isd-va; MOISEL', B.I., tekhn.red.; TIKHONOV, A.Ye., tekhn.red.

[Beds and body parts of machine tools; design and construction]  
Staniny i korpusnye detali metalloreshushchikh stankov; raschet  
i konstruirovaniye. Pod red. D.N.Reshetova. Moskva, Gos.nauchno-  
tekhn.isd-vo mashinostroit.lit-ry, 1960. 263 p.

(MIRA 13:10)

(Machine tools--Design and construction)

LEVINA, Z. M.

PHASE I BOOK EXPLOITATION

SOV/5102

Kaminskaya, Virineya Vasil'yevna, Zoya Mikhaylovna Levina, and  
Dmitriy Nikolayevich Reshetov

Staniny i korpusnyye detali metallovezhushchikh stankov. Raschet i  
Konstruirovaniye (Frames and Box-Shaped Parts of Metal-Cutting  
Machine Tools. Design and Construction) Moscow, Mashgiz, 1960.  
362 p. Errata slip inserted. 5,000 copies printed.

Sponsoring Agency: Eksperimental'nyy nauchno-issledovatel'skiy  
institut metallovezhushchikh stankov ENIMS.

Ed. (Title page): D. N. Reshetov, Doctor of Technical Sciences,  
Professor; Ed. of Publishing House: A. P. Balandin; Tech. Ed.:  
B. I. Model'; Managing Ed. for Literature on Metalworking and  
Machine-Tool Making: V. I. Mitin, Engineer.

PURPOSE: This book is intended for machine-tool designers, and de-  
signers in other branches of the machine industry.

Card ~~1~~/10

# Frames and Box-Shaped Parts (Cont.)

SOV/5102

**COVERAGE:** Frames and box-shaped parts of machine tools are discussed from the standpoint of their design and construction. Rigidity is taken as the basic criterion in the analysis of the deformation of parts and local contact deformations. General considerations and assumptions regarding the derivation of formulas and methods for engineering design are given. Also shown are the results of experiments conducted on models and actual machine tools which confirm the acceptability of suggested design methods. The classification of constructions, and the selection of optimum shapes are based on calculations which take into account the most important working-capacity criteria. Technicians P. V. Chizhova and V. A. Isayeva participated in the experiments and calculations. Yu. N. Sokolov, Candidate of Technical Sciences, wrote Section 7 of Ch. II, Section 5 of Ch. VI, and Section 4 of Ch. VIII. G. A. Levit, Candidate of Technical Sciences, developed the calculations in Section 5B of Ch. VIII. There are 79 references: 70 Soviet, and 9 German.

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Introduction

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Card 2/10



LEVINA, Z.M.; RESHETOV, D.N.

Investigating and calculating the rigidity of roller-type guides.  
Stan.1 instr. 32 no.11:8-17 N '61. (MIRA 14:10)  
(Machine tools)

LEVINA, Z.M.; KALMYKOV, N.I.

Friction losses in rolling guides. Stan.i instr. 33 no.1:15-17  
Ja '62. (MIRA 15:2)

(Friction)

LEVINA, Z.M.

Design of rolling guides and causes for their breakdown. Stan.1  
instr. 33 no.6:8-12 Je '62. (MIRA 15:7)  
(Machine tools--Design)

LEVINA, 2.M.

Rolling guides in modern machine tools. Stan.1 instr. 34 no.3:  
36-40 Mr '63.

(MIRA 16:5)

(Machine tools)

LEVINA, Z.M.; OSTROVSKIY, V.I.

Effect of gib deformations on the pressure distribution and on  
the rigidity of guides. Sten. 1 instr. 34 no.9:9-13 8 '63.  
(MIRA 16:11)

LEVINA, Z.M.

Calculation of a ball and spline joint. Stan. 1 instr. 35  
no. 68.1-6 Je '64 (MIRA 17:8)

LEVINA, Z.M.

Calculation of contact deformations of guides. Stan. 1 'nstru.  
36 no.1:7-14 Ja '65. (MIRA 18:4)

LEVINA, Z.M.

Basic characteristics of the performance of guides for rolling.  
Stan. 1 instr. 36 no.7:7-13 J1 '65. (MIPA 18:8)



LEVINA, Z.M., kand. tekhn. nauk; RESHETOV, D.N., doktor tekhn. nauk, prof.

Fundamentals of the contact-rigidity analysis of machines. Vest.  
mashinostr. 45 no. 12:16-23 D '65 (MIRA 19:1)

LEVINA, I.T.

Structure of one of the ancient valleys of Central Kazakhstan and  
age of its deposits. Vest.AN Kazakh. SSR 10 no.11:111-114 N '53.  
(MLRA 6:12)

(Kazakhstan--Geology. Stratigraphic)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610018-5

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610018-5"

DUDKIN, M.S.; KHAIT, S.Z.; SHKANTOVA, N.G.; LEVINA, Z.V.

Growing feed yeasts on the hydrolyzates of agricultural polysaccharide wastes. Izv. vys. ucheb. zav.; pishch. tekhn. no.2:108-112 '63. (MIRA 16:5)

1. Odesskiy tekhnologicheskii institut imeni M.V. Lomonosova, kafedra organicheskoy khimii.  
(Yeast) (Polysaccharides)

DUDKIN, M.S.; KHAIT, S.Z.; RAKINTSEVA, R.M.; LEVINA, Z.V.; KRASIL'NIKOVA, S.V.

Cultivation of yeasts in an apparatus equipped with a suction stirrer.  
Gidroliz. i lesokhim. prom. 17 no.3:7-10 '64.

(MIRA 17:9)

1. Odesskiy tekhnologicheskii institut im. Lemonosova.

DUDKIN, M.S.; KHAIT, S.Z.; SHKANTOVA, N.G.; LEVINA, Z.V.

Cultivation of fodder yeast on the hydrolysates of the  
polysaccharides of marine algae and aquatic flowering plants.  
Nauch. dokl. vys. shkoly; biol. nauki no. 2:128-132 '64.  
(MIRA 17:5)

1. Rekomendovana kafedroy organicheskoy khimii Odesskogo  
tekhnologicheskogo instituta.

LEVINA-GUREVICH, L.A.

Significance of pneumomediastinography in the examination of patients with pulmonary cancer. Khirurgiia no.1:71-76 '62.

(MIRA 15:11)

1. Iz 2-y kafedry rentgenologii i meditsinskoy radiologii (zav. - prof. Yu.N. Sokolov) i iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K. Osipov) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Moskovskoy gorodskoy bol'nitsy No.50 (glavnyy vrach N.P. Brusova).

(LUNGS—CANCER) (PENUMOMEDIASTINUM)

CHIRITSOVA, K.I.; VOLKOV-DUBROVIN, V.P.; LEVINA-SHCHIRINA, E.S.

Study of the soles of the population taking age and profession  
into consideration. Nauch.-issl. trudy TSNIKP no.33:96-106 '63  
(MIRA 18:1)



IVANOVSKAYA, T.Ye.; LEVINAS, I.O. (Moskva)

Visceral lesions in congenital toxoplasmosis. Arkh. pat. no.12:  
23-29 '63. (MIRA 17:11)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy  
chlen AMN SSSR prof. I.V. Davydovskiy) II Moskovskogo meditsin-  
skogo instituta imeni Pirogova, proektury Detskoy klinicheskoy  
bol'nitsy No.1 (zav. otdeleniyem - kand. med. nauk V.M. Afanas'-  
yeva, glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich)  
i Rodil'nogo doma No.7 imeni Grauermana (glavnyy vrach Ye.I. Bu-  
lanova), Moskva.

LEVINAS, I.O. (Moskva)

Histochemical characteristics of so-called basophile degeneration of the internal elastic membrane of the small arteries. Arkh.pat. no.10:46-52 '61. (MIRA 14:10)

1. Iz otdela eksperimental'noy patologii i biologii (zav. - prof. I.K. Yesipova) Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo otdeleniya AN SSSR.  
(ARTERIES—DISEASES)

LEVINAS, I. O.

Endocardial fibroelastosis in children. *Pediatrics* 41 no.3:61-69  
'62. (MIRA 15:2)

1. Iz proektury Detskoy gorodskoy klinicheskoy bol'nitsy No. 1  
(zav. V. M. Afanas'yeva, nauchnyy rukovoditel - deystvitel'nyy  
chlen AMN SSSR M. A. Skvortsov, glavnyy vrach - zasluzhennyy  
vrach RSFSR Ye. V. Prokhoroviya)

(HEART—DISEASES)

IVANOVSKAYA, T.Ye.; LEVINAS, N.O. (Moskva)

Acute diffuse fibrosis of the lungs in children. Arkh. pat.  
24 no.9:59-64 '62. (MIRA 17:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.V. Davydovskiy) II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova i prožektury (zav. - kand. med. nauk V.M. Afanas'yeva) Moskovskoy detskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach Ye.V. Prokhorovich).

LEVINAS, Ya. [Levinas, J.]

Treatment of ascariasis by means of single doses of piperazine  
adipate in the Lithuanian S.S.R. Med.paraz.i paraz.bol. no.3:  
291-293 '62. (MIRA 15:9)  
(PIPERAZINE) (LITHUANIA--ASCARIDS AND ASCARIASIS)  
(ADIPIIC ACID)

LEVINAS, Ye.R., inzh.; NOVINOV, Yu.N., inzh.

Experimental equipment for manufacturing centrifuged prestressed  
concrete electric line poles. Stroi. i dor. mash. 6 no.9:25-  
28 3 '61. (MIRA 14:10)

(Electric lines--Poles)  
(Prestressed concrete)

LEVINAS, Ye. R., inzh.

Large-panel housing construction in Vilnius. Mekh. stroi. 18  
no.4:15-18 Ap '61. (MIRA 14:6)

1. Vil'nyusskiy zavod zhelezobetonnykh izdeliy.  
(Vilnius--Reinforced concrete)

L 17619-66 EWP(e)/EWT(m)/EWP(j)/ETC(m)-6 WM/RM/WH  
 ACC NR: AP6007679 SOURCE CODE: UR/0413/66/000/003/0049/0049  
 INVENTOR: Mazo, E. E.; Matveyev, M. A.; Ushakova, L. K.; Iodo, S. S.; Orlova, V. M.,  
Volkodanov, A. F.; Levinbaum, B. M.  
 ORG: none  
 TITLE: Glass for glass fiber. Class 32, No. 178458  
 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 49  
 TOPIC TAGS: glass fiber, electric insulator  
 ABSTRACT: An Author Certificate has been issued for a glass for making glass fiber with improved electrical insulation properties and reduced cost. The glass has the following composition:  $\text{SiO}_2$ , 54-57%;  $\text{Al}_2\text{O}_3$ , 8-9%;  $\text{CaO}$ , 13-17%;  $\text{SrO}$ , 13-17%;  $\text{MgO}$ , not over 3.5%; and, in addition,  $\text{BaO}$ , 1.5-5%, and  $\text{Fe}_2\text{O}_3$ , not over 1.5%. [B0]  
 SUB CODE: 11/ SUBM DATE: 07Dec64/ ATD PRESS: 4A10

Cord 1/1 7195

UDC: 666.189.212



LEVINBUK, I.Kh., kandidat tekhnicheskikh nauk.

Investigation of hydraulic rams and using them in railroad water  
supply. Trudy TbilZHT no.22:265-309 '50. (MLRA 9:11)

(Hydraulic rams)

(Railroads--Water supply)

CELLER, Z.I.; LEVINSKY, I.E.

Concerning the book of A.D. Al'tshuler "Local hydraulic resistances  
in the motion of viscous fluids". Ref. No. 41 no. 11-3 of cover  
F '63. (MIRA 17:8)

LEVINEBUK, I.Kh.

Measuring the consumption of petroleum refinery waste waters.  
Nefteper. i neftekhim. no.1:22-24 '63. (MIRA 16:10)

1. Groznenskiy neftyanoy institut.

MOVEMENT, J.M.

Movement of an exposed ~~plastic~~ plastic mass. True Grav. net  
inst. no. 11:52-12:15. (S.L. 11:5)  
(41 well defined lines)

LEVINBURG, L. M.

43/49T57

USSR/Engineering  
Stokers, Mechanical  
Boilers

Jan 49

"A 'Mechanical Fireman' for Low- and Average-  
Power Boilers," L. M. Levinburg, Engr, 1 pp

"Za Ekonomiyu Topliva" Vol VI, No 1

"Mechanical fireman" consists of a multiblade  
loader, a stoking device which is a functional  
continuation of the loader, a belt feeder, a coal  
bunker and revolving furnace grates. Mechanical  
fuel loading and stoking enable one fireman instead  
of three or four to service a boiler for a shift  
(boiler load of 8.5 tons per hour).

43/49T57

[illegible]

"Hygienic characteristics of the day regimen of Japanese school children."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectiousists, 1959.

GOLDOVSKIY, Ye.M.; LEVINTON, A.L.

Use of narrow-width film in filming motion pictures. Trudy NIKFI  
no.7:133-137 '47. (MIRA 11:6)

1. Laboratoriya s"yemochnoy tekhniki Nauchno-issledovatel'skogo  
kino-foto-instituta, Moskva.  
(Cinematography--Films)

PHASE I Treasure Island Bibliographic Report

00000037

BOOK

Call No.: AF546504

Authors: Ch. I - IEVINGTON, A.L., and PROVOZOV, F.F.  
Ch. II - GOLOSTENOV, G.A., Beh. of Eng. Sci. and DERBISHER, T.V. Eng.  
Ch. III - PELL', V.G., Beh. of Eng. Sci. and RABINOVICH, Kh. A. Eng.  
Ch. IV & V - DRUKKER, S.A. Beh. of Eng. Sci.  
Ch. VI - PELL', V.G. Beh. of Eng. Sci.  
Ch. VII - OSKOLKOV, I.N. Beh. of Eng. Sci. and SOKOLOV, S.A. Eng.  
Ch. VIII - RADCHIK, B.I., Eng.  
Ch. IX - GORDIYCHUK, I.B.  
Ch. X - TOLMACHEV, V.A., Eng.

Full Title: TECHNIQUE OF CINEMATOGRAPHY

Series: Accomplishments of Soviet Cinema Technique

Transliterated Title: Kinos'emochnaya tekhnika

Seriya: Dostizheniya sovetskoy kinotekhniki

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of Cinematographic Literature (Goskinoizdat)

Date: 1952

No. pp.: 462

No. copies: 10,000

Editorial Staff

Editor: None

Technical Editor: None

Editor-in-Chief: Goldovskiy, E.M.,  
Dr. of Technical Sciences

Appraiser: None



Card 2/2

00000037

Call No. AF546504

Full Title: **TECHNIQUE OF CINEMATOGRAPHY**

Series: **Accomplishments of Soviet Cinema Technique**

**Text Data**

**Coverage:** The book is the fourth in the series "Accomplishments of Soviet Cinema Technique" and describes the basic methods of taking colored motion pictures. The technique for black-white photography was given in the three previous books. A description of the combined and special types of production now adopted in Soviet cinema studios and the technique of cinema stage settings will be published in one of the following issues of the series.

The book primarily describes the lighting equipment, lenses and deflectors, electric power units for light effects, and arrangements for color-photographic balances of different intensities. The book also gives brief data on: apparatus for normal and synchronic methods of taking pictures; narrow and broad films; tripods of various types; controlling method and mechanisms in cinematographic apparatuses.

**Purpose:** General information for wide circle of specialists in motion pictures.

**Facilities:** Scientific Research Institute for Motion Pictures and Photography (N.I.K.P.I.); cinema-studios in Moscow and Leningrad regions.

**No. Russian references:** None.

**Available:** A.I.D., Library of Congress.

IVANOV, B.T.; LEVINTON, A.L.; IOFIS, Ye.A., kand.tekhn.nauk, red.;  
TELESHEV, A.M., red.; MALIK, Z.M., tekhn.red.

[Stereoscopic photography] Stereoskopicheskaya fotografiya.  
Pod red. M.A.Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1959.  
94 p. (Biblioteka fotoliubitelia, no.18).

(MIRA 13:6)

(Photography, Steroscopic)

~~IRVINIHA, F.M.~~ (Kiyev)

Hygienic principles for determining areas requiring sanitation near  
reservoirs in the Krivoy Rog Basin. Vrach.delo no.4:395-397 Ap '57.  
(MLRA 10:7)

1. Ukrainskiy institut kommunal'noy gigiyeny  
(KRIVROY ROG BASIN--WATER SUPPLY)

LEVININA, F.M., aspirant

Sanitary protection of open waters of the Krivoy Rog iron ore basin. Gig. i san. 22 no.3:76-78 Mr '57. (MLRA 10:6)

1. Is Ukrainskogo instituta kommunal'noy gigiyeny.

(WATER SUPPLY

sanitary protection of open water reservoirs in Russia)

(SANITATION

same)

LEVININA, F.M.

LEVININA, F.M., Cand Med Sci -- (diss) "Sanitary protection of open water reservoirs of the Krivoy Roo iron ore basin in connection with their use by the population." Dniepropetrovsk, 1958. 16 pp (Min of Health UkrSSR. Dniepropetrovsk State Med Inst). 200 copies (KL, 20-58,102)

LEVININA, F.M.

Sewage from ore-dressing plants and mine discharges of the Krivoy Rog  
iron ore basin and efficiency of its purification. Vod. i san. tekhn.  
no.1:19-20 Ja '58. (MIRA 11:1)  
(Krivoy Rog Basin--Sewage--Purification)

NECHEPURENKO, V.I.; inzh.; LEVINMAN, S.B.

Mechanization and automation at the Rogachev Canned Milk Plant.  
Mekh. i avtom. proizv. 16 no.6:20-22 Je '62. (MIRA 15:6)  
(Automation)  
(Rogachev—Canning industry—Technological innovations)

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**APPROVED FOR RELEASE: 07/12/2001**

**CIA-RDP86-00513R000929610018-5"**



Dissertation: "An investigation of the electrical characteristics of domestic cable processed Coaxial Cable." Candidate, Moscow Electrical Engineering Institute of Communications. 10 Jan 54. (Voennoyaznaia shkola, Moscow, 10 Jan 54)

No: 104 518, 23 Dec 1954

ORLOV, Mikhail Sergeyevich; ~~LEVINOV, K.O.~~ otvetstvennyy redaktor;  
MARTSINKOVICH, T.M., redaktor; KHBLEMSKAYA, L.M., tekhnicheskii  
redaktor

[Coil loading of rural underground lines for radio systems]  
Pupinivatsiia sel'skikh podzemnykh liniy radiofikatsii. Moskva,  
Gos. izd-vo lit-ry po voprosam svyazi i radio, 1954. 55 p.  
[Microfilm] (MLRA 8:2)  
(Radio--Receivers and reception)

USSR/ Electronics

Card 1/1      Pub. 133 - 3/19

Authors : Shvartsman, V. O. and Levinov, K. G., Candidates of Tech. Sc. and Senior Scientific Workers, TsNIIIS

Title : Concentrated symmetrization during the widening of the frequency range from 60 to 108 kc in multi-channel cables

Periodical : Vest.svyazi <sup>15</sup> 4 (181), 6-8, Apr 1955

Abstract : Practical advice, based on the generalization of the experimental work, is presented. The information deals with the organization for measuring and performing the concentrated symmetrization of main cable systems with frequencies up to 108 kc.

Institution : .....

Submitted : .....

LEVINOV, Konstantin Georgiyevich; GUMEL'YA, A.M., otv.red.; FEDOROVSKAYA,  
L.M., red.; MARKOCH, K.G., tekhn.red.

[Overhead communication lines] Vozdushnye linii svyazi. Moskva,  
Gos.izd-vo lit-ry po voprosam svyazi i radio, 1959. 303 p.  
(MIRA 13:3)

(Electric lines--Overhead)

PARIKOZHKA, I.A.; PUGACH, A.B.. Primarni uchastiki: PASHCHENKO, Z.S.;  
FURMAN, I.I.; TRUSKALOV, N.P.; SHEVCHENKO, A.Ye.; SAKHAROVA,  
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L.S., red.; SHEFER, G.I., tekhn.red.

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Production of fodder precipitate from maceration lyes resulting  
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'59. (MIRA 13:8)

(Feeding and feeds) (Lye) (Gelatin)

L 45965-66 EWT(1) SCIB DD/RD/JKT/CD/JXT(CZ)

ACC NR: AT6030695

SOURCE CODE: UR/0000/66/000/000/0035/0051

AUTHOR: Nefedov, Yu. G.; Anisimov, B. V.; Veselova, A. A.; Zaloguyev, S. N.;  
Zhuravlev, V. V.; Isejev, L. R.; Komarov, N. N.; Kartsev, A. N.; Ivanenko, G. T.;  
Levinshiy, S. V.

ORG: none

TITLE: The aeroion composition of the air of hermetic chambers and its influence on  
the human organism

SOURCE: Konferentsiya po kosmicheskoy biologii i meditsine, 1964, Materialy.  
Moscow, Inst. mediko-biol. problem, 1966, 35-51

TOPIC TAGS: aeroionization, human physiology, life support system, space physiology

ABSTRACT: A number of previous studies have indicated that while aeroions are of minor consequence, chronic exposure to them can lead to substantial changes in the functional condition of the organism. To further study this factor, five experiments of 20 days duration were conducted on 25 male volunteers from a laboratory (not named). The first experiment was for control purposes to obtain hygienic, chemical, and physiological data. The density of ions in this experiment ranged from 50—2000 pairs of ions/cm<sup>3</sup>. The second, third, and fourth experiments entailed exposure to positive, negative, and bipolar ions generated by "Shteynbok" radioactive ionizers. Ion concentration in the respiratory zone was 700—900 thousand ions/cm<sup>3</sup>

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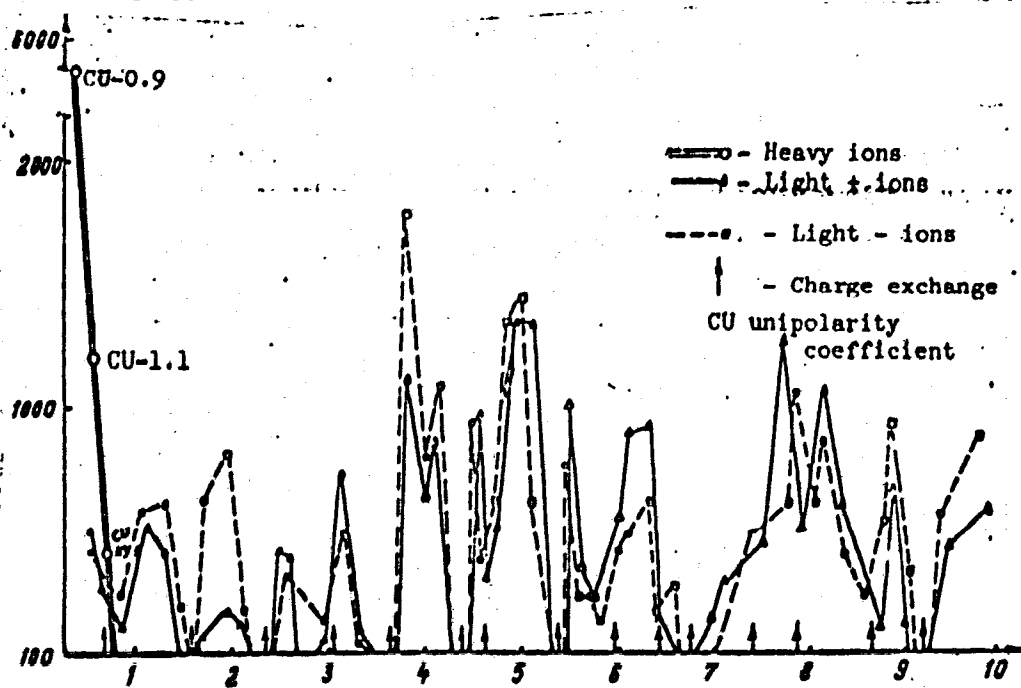


Fig. 1. Aerion composition during a 10-day experiment

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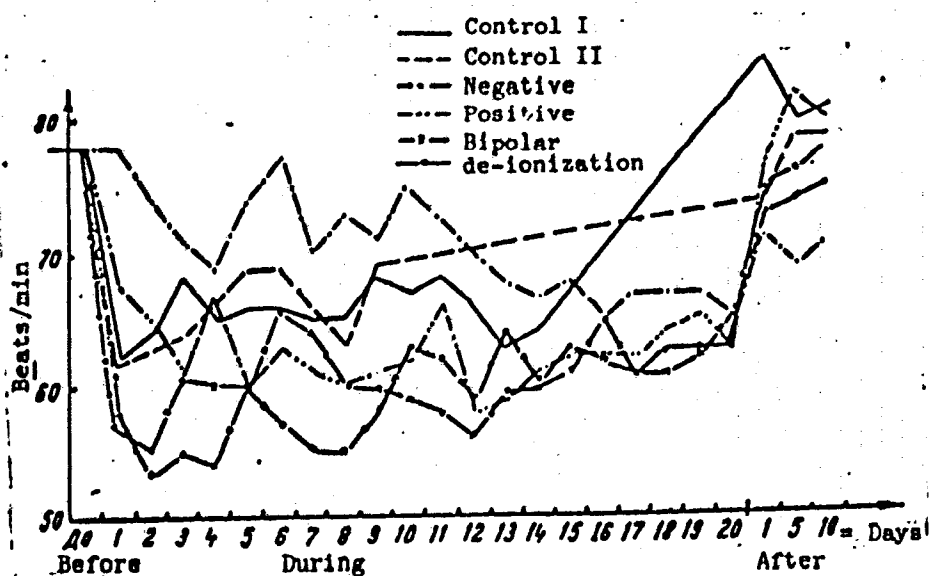


Fig. 2. Pulse dynamics during various experimental regimens

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ACC NR: AT6030695

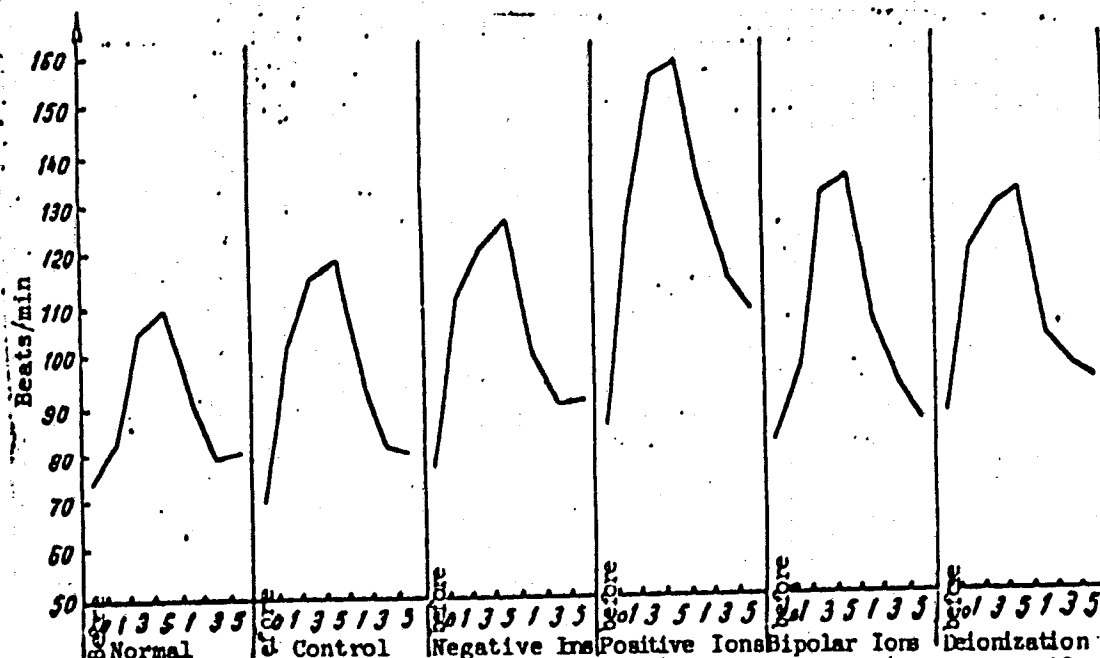


Fig. 3. Pulse variations during bicycle ergometer tests

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ACC NR: AT6030695

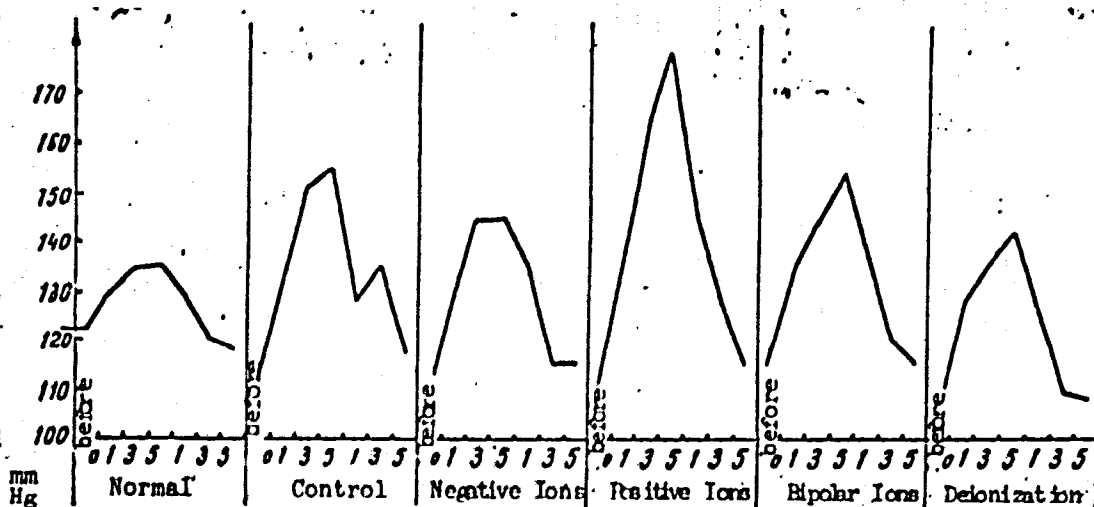


Fig 4. Changes in systolic pressure during exercise on a bicycle ergometer (mean values)

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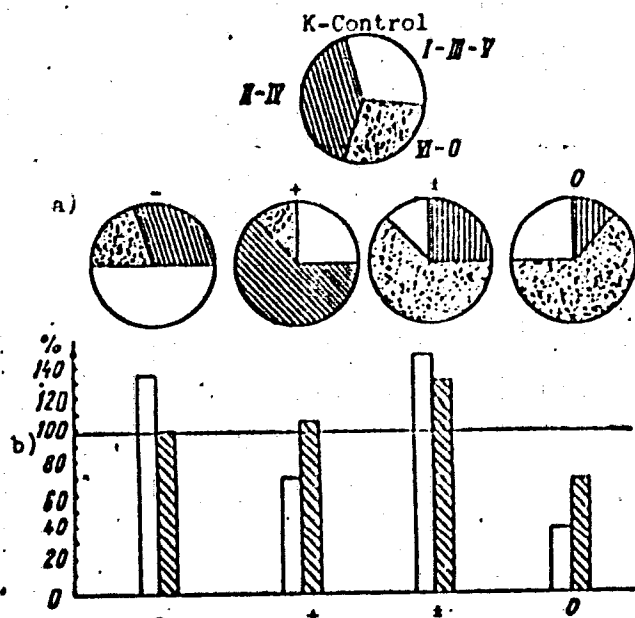


Fig. 5. Comparative characteristics of changes in the strength of neural processes in various experimental regimens (+, -, ±, control)

a - Character of reactivity curves;  
b - changes in the coefficient of reactivity to light (white) and to opening the eyes (striped).

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ACC NR: AT6030695

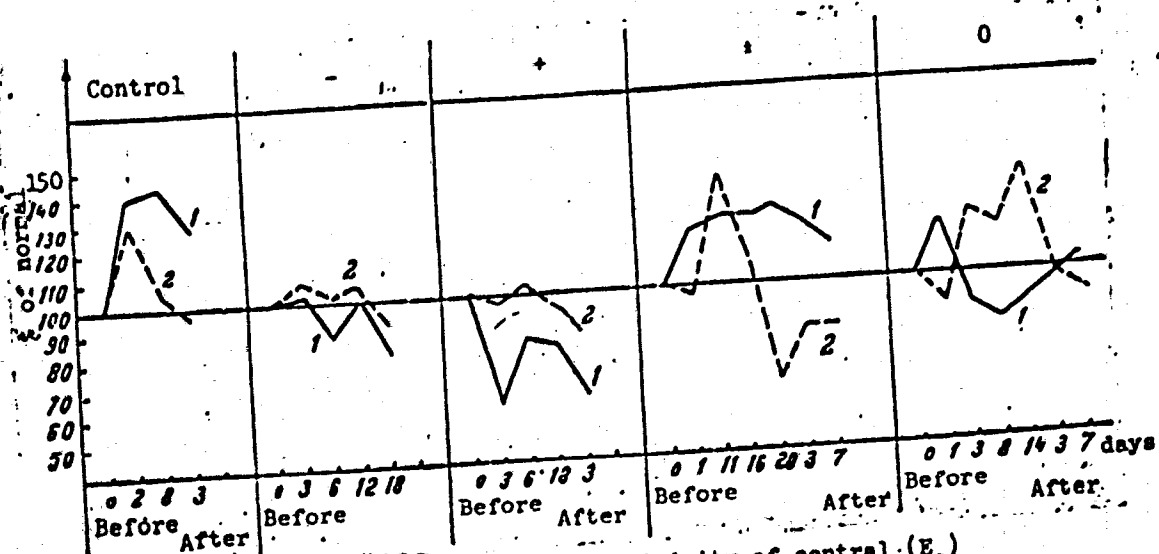


Fig. 6. Changes in the sensitivity of central ( $E_0$ ) and peripheral ( $L_3$ ) components of the visual analyzer (mean values): 1 -  $E_0$ ; 2 -  $L_3$

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L 45965-66

ACC NR: AT6030695

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during experimentation. Allowing that the natural exposure dose for the lungs is 12.87 mrem/week (Sivintsev, 1960), it was calculated that 1 g of lung receives  $0.33 \cdot 10^{10}$  pairs of ions per day. If, in the respiratory medium, there were 500 pairs of light ions/cm<sup>3</sup> and 5000 pairs of heavy ions/cm<sup>3</sup>, then  $0.7 \cdot 10^{10}$  light and  $7 \cdot 10^{10}$  heavy pairs of ions would reach the lungs of a man during a day. In these experiments, the average subject received approximately  $10^{11}$  pairs of light ions per day. In the fifth experiment, the chamber was de-ionized using a system of filters and special ion traps. However, complete de-ionization could not be achieved and the density was 50—60 pairs of ions/cm<sup>3</sup>. Some results of these experiments are shown in Figs. 1-6. The results of the experiment generally showed increased muscular working capacity, external respiration, and an increased level of gas exchange during exercise in the experiment with negative aeroionization. Partial normalization of some indices occurred during the respiration of negative aeroions. However, for a number of indices, a normalizing effect was also noted in response to the respiration of positive and bipolar ions. Nonetheless, the general trend of the majority of shifts noted during experimentation lends credence to the proposition that prolonged exposure to positive ions or a de-ionized air leads to some changes deleterious to human health. It is possible that an effective approach to this problem would be to combine negative ions with positive or bipolar ions. The establishment of optimum aeroion regimens requires additional research. Orig. art. has: 7 figures. [CD]

SUB CODE: 06/ SUBM DATE: 14Apr66/ ORIG REF: 011/ ATD PRESS: 5086

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<sub>1</sub>

"Recovery Voltages During Fault Clearing on Long Transmission Lines With Series Capacitors", paper presented at International Conference on Large Electric Systems (CIGRE), 16th Session, Paris, 30 May-9 June 1956.

LEVINSHTEYN, M.L.

PHASE I BOOK EXPLOITATION

SOV/1130

Leningrad. Politekhnikheskiy institut

Tekhnika vysokikh napryazheniy (High-voltage Technique) Moscow, Gosenergoizdat, 1958. 664 p. (Series: Its Trudy, No. 195) 3,000 copies printed.

Eds.: Kostenko, M.V., Doctor of Technical Sciences, Professor; Pal', Ye.A.; Tech. Ed.: Voronetskaya, L.V.; Resp. Ed. of Series: Smirnov, V.S., Doctor of Technical Sciences, Professor.

PURPOSE: This book is addressed to electrical engineers, specifically to those interested in the field of high-voltage technique.

COVERAGE: This collection of articles sums up the principal results of investigations and studies made by Professor A.A. Gorev, Doctor of Technical Sciences, and his staff in the field of high-voltage phenomena and techniques at LPI (Leningrad Polytechnic Institute). It was at this institute

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High-voltage Technique (Cont.)

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that Professor Gorev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of the Minister of Higher Education, the high-voltage laboratory at LPI was named after A.A. Gorev. Numerous references appear throughout the book.

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SECTION III. OVERVOLTAGE AND CORONA

Levinshteyn, M.L., Nikolayevskaya, N.N., and Ushakov, I.M.  
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9(3)

AUTHORS:

SOV/143-58-11-1/16

Gribov, A.N., Candidate of Technical Sciences, and  
Levinshhteyn, M.L., Candidate of Technical Sciences,  
Docent

TITLE:

The Influence of the Saturation of Transformers and  
Synchronous Generators on the Overvoltages Arising  
on Power Lines With a Forcing of the Excitation During  
Generator Rotor Hunting Processes

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,  
1958, Nr 11, pp 1-14 (USSR)

ABSTRACT:

The so-called "glubokaya forsirovka" (intensive forcing) of the excitation of synchronous generators and compensators is practiced on long-distance power lines for increasing the dynamic stability and the operational reliability of power distribution networks. In individual cases the excitation ceiling of the generators will attain the four-fold value of the rated excitation current for a duration of many industrial frequency cycles. In this connection the opinion may be heard that considerable overvoltages arise at the insulation

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